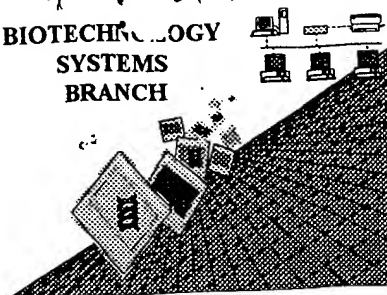


BEST AVAILABLE COPY

RAW SEQUENCE LISTING
ERROR REPORT

0400
4-8-01
BIOTECHNOLOGY
SYSTEMS
BRANCH



0420
#7
K
3-9-02

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/811,045

Source: O/PE

Date Processed by STIC: 3/30/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIKE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/811,045

DATE: 03/30/2001

TIME: 15:13:53

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03302001\I811045.raw

Does Not Comply
Corrected Diskette Needed

2 <110> APPLICANT: Scott, Robert E.
 4 <120> TITLE OF INVENTION: cDNA encoding P2P proteins and use of P2P cDNA-derived
 antibodies
 5 and antisense reagents in determining the proliferative potential of normal,
 6 abnormal and cancer cells in animals and humans
 8 <130> FILE REFERENCE: D6386D
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/811,045
 11 <141> CURRENT FILING DATE: 2001-03-16
 12 <150> PRIOR APPLICATION NUMBER: US 08/801,308
 13 <151> PRIOR FILING DATE: 1997-02-18
 15 <160> NUMBER OF SEQ ID NOS: 4

ERRORED SEQUENCES

17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 1404
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Unknown
 22 <220> FEATURE:
 24 <221> NAME/KEY: PEPTIDE
 25 <223> OTHER INFORMATION: P2P polypeptide
 27 <400> SEQUENCE: 1
 28 Met Met Glu Val Lys Asp Pro Asn Met Lys Gly Ala Met Leu Thr
 29 5 10 15
 30 Asn Thr Gly Lys Tyr Ala Ile Pro Thr Ile Asp Ala Glu Ala Tyr
 31 20 25 30
 32 Ala Ile Gly Lys Lys Glu Lys Pro Pro Phe Leu Pro Glu Glu Pro
 33 35 40 45
 34 Ser Ser Ser Ser Glu Glu Asp Asp Pro Ile Pro Ala Glu Leu Leu
 35 50 55 60
 36 Cys Leu Ile Cys Lys Asp Ile Met Thr Asp Ala Val Val Ile Pro
 37 65 70 75
 38 Cys Cys Gly Asn Ser Ser Cys Asp Glu Cys Ile Arg Thr Thr Leu
 39 80 85 90
 40 Leu Glu Ser Asp Lys His Thr Cys Pro Thr Cys His Gln Asn Asp
 41 95 100 105
 42 Val Ser Pro Asp Ala Leu Ile Ala Asn Lys Phe Leu Arg Gln Ala
 43 110 115 120
 44 Val Asn Asn Phe Lys Asn Glu Thr Gly Tyr Thr Lys Arg Leu Arg
 45 125 130 135
 46 Lys Gln Leu Pro Pro Phe Leu Phe Leu Val Pro Pro Pro Arg Pro
 47 140 145 150
 48 Leu Ser Gln Arg Asn Leu Gln Pro Arg Ser Arg Ser Pro Ile Leu
 49 155 160 165
 50 Arg Gln Gln Asp Pro Val Val Phe Arg Tyr Thr Val Ser Pro Thr
 51 170 175 180
 52 Cys Ser Asp Thr Lys Thr Ala Gly Ser Cys Ser Asp Ser Gly Thr

RAW SEQUENCE LISTING

DATE: 03/30/2001

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TIME: 15:13:53

Input Set : A:\PTO.txt

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53		185		190		195
54	Leu Ser Arg Leu	Pro Ala Pro Ser Ile	Ser Ser Leu Thr Ser	Asn		
55		200		205		210
56	Gln Ser Ser Leu	Ala Pro Pro Val Ser	Gly Asn Pro Ser Ser	Ala		
57		215		220		225
58	Pro Ala Pro Val	Pro Asp Ile Thr Ala	Thr Val Ser Ile Ser	Val		
59		230		235		240
60	His Ser Glu Lys	Ser Asp Gly Pro Phe	Arg Asp Ser Asp Asn	Lys		
61		245		250		255
62	Leu Leu Pro Ala	Ala Ala Leu Thr Ser	Glu His Ser Lys Gly	Ala		
63		260		265		270
64	Ser Ser Ile Ala	Ile Thr Ala Leu Met	Glu Glu Lys Gly Val	Pro		
65		275		280		285
66	Gly Thr Ser Pro	Trp Asn Ser Ile Phe	Val Gly Gln Ser Leu	Leu		
67		290		295		300
68	His Gly Gln Leu	Ile Pro Thr Thr Gly	Pro Val Arg Ile Asn	Ala		
69		305		310		315
70	Ala Arg Pro Gly	Gly Gly Arg Pro Gly	Trp Glu His Ser Asn	Lys		
71		320		325		330
72	Leu Gly Tyr Leu	Val Ser Pro Pro Gln	Gln Ile Arg Arg Gly	Glu		
73		335		340		345
74	Arg Ser Cys Tyr	Arg Ser Ile Asn Arg	Gly Arg His His Ser	Glu		
75		350		355		360
76	Arg Ser Gln Arg	Thr Gln Ser Pro Ser	Leu Pro Ala Thr Pro	Cys		
77		365		370		375
78	Phe Val Pro Val	Pro Pro Pro Pro Leu	Tyr Pro Pro Pro Pro	His		
79		380		385		390
80	Thr Leu Pro Leu	Pro Pro Gly Val Pro	Pro Pro Gln Phe Ser	Pro		
81		395		400		405
82	Gln Phe Pro Ser	Ser Gln Pro Pro Thr	Ala Gly Tyr Ser Val	Pro		
83		410		415		420
84	Pro Pro Gly Phe	Pro Pro Ala Pro Ala	Asn Ile Ser Thr Ala	Cys		
85		425		430		435
86	Phe Ser Pro Gly	Val Pro Thr Ala His	Ser Asn Thr Met Pro	Thr		
87		440		445		450
88	Thr Gln Ala Pro	Leu Leu Ser Arg Glu	Glu Phe Tyr Arg Glu	Gln		
89		455		460		465
90	Asn Asp Lys Gly	Arg Glu Ser Lys Phe	Pro Tyr Ser Gly Ser	Ser		
91		470		475		480
92	Tyr Ser Arg Ser	Ser Tyr Thr Asp Ser	Ser Gln Gly Leu Ala	Gln		
93		485		490		495
94	His Ile His Ala	Leu Thr Leu Ser Pro	Ser Ala Ala His Thr	Leu		
95		500		505		510
96	Asp Leu Leu His	Asp His Pro His Pro	Pro Glu Glu Ala Glu	Ala		
97		515		520		525
98	Arg Ser Ala Met	Ile Val His Met Pro	Asp Leu Met Asp Ile	Ala		
99		530		535		540
100	His Ala Arg Ser	Arg Ser Pro Pro Tyr	Arg Arg Tyr Arg Ser	Arg		
101		545		550		555

RAW SEQUENCE LISTING

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TIME: 15:13:53

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03302001\I811045.raw

102	Ser	Arg	Ser	Pro	Pro	Glu	Phe	Arg	Gly	Gln	Ser	Pro	Thr	Lys	Arg
103					560					565					570
104	Asn	Val	Pro	Arg	Glu	Glu	Lys	Glu	Arg	Glu	Tyr	Phe	Asn	Arg	Tyr
105					575					580					585
106	Arg	Glu	Val	Pro	Pro	Pro	Tyr	Asp	Ile	Lys	Ala	Tyr	Tyr	Gly	Arg
107					590					595					600
108	Ser	Val	Asp	Phe	Arg	Asp	Pro	Phe	Glu	Lys	Glu	Arg	Tyr	Arg	Glu
109					605					610					615
110	Trp	Glu	Arg	Lys	Tyr	Arg	Glu	Trp	Tyr	Glu	Lys	Tyr	Tyr	Lys	Gly
111					620					625					630
112	Tyr	Ala	Val	Gly	Ala	Gln	Pro	Arg	Pro	Ser	Ala	Asn	Arg	Glu	Asp
113					635					640					645
114	Phe	Ser	Pro	Glu	Arg	Leu	Leu	Pro	Leu	Asn	Ile	Arg	Asn	Ser	Pro
115					650					655					660
116	Phe	Thr	Arg	Gly	Arg	Arg	Glu	Asp	Tyr	Ala	Ala	Gly	Gln	Ser	His
117					665					670					675
118	Arg	Asn	Arg	Asn	Leu	Gly	Gly	Asn	Tyr	Pro	Glu	Lys	Leu	Ser	Thr
119					680					685					690
120	Arg	Asp	Ser	His	Asn	Ala	Lys	Asp	Asn	Pro	Lys	Ser	Lys	Glu	Lys
121					695					700					705
122	Glu	Ser	Glu	Asn	Val	Pro	Gly	Asp	Gly	Lys	Gly	Asn	Lys	His	Lys
123					710					715					720
124	Lys	His	Arg	Lys	Arg	Arg	Asn	Glu	Glu	Lys	Gly	Glu	Glu	Ser	Glu
125					725					730					735
126	Ser	Phe	Leu	Asn	Pro	Glu	Leu	Leu	Glu	Thr	Ser	Arg	Lys	Cys	Arg
127					740					745					750
128	Gly	Ser	Ser	Gly	Ile	Asp	Glu	Thr	Lys	Thr	Asp	Thr	Leu	Phe	Val
129					755					760					765
130	Leu	Pro	Ser	Arg	Asp	Asp	Ala	Thr	Pro	Val	Arg	Asp	Glu	Pro	Met
131					770					775					780
132	Asp	Ala	Glu	Ser	Ile	Thr	Phe	Lys	Ser	Val	Ser	Asp	Lys	Asp	Lys
133					785					790					795
134	Arg	Glu	Lys	Asp	Lys	Pro	Lys	Val	Lys	Ser	Asp	Lys	Thr	Lys	Arg
135					800					805					810
136	Lys	Ser	Asp	Gly	Ser	Ala	Thr	Ala	Lys	Lys	Asp	Asn	Val	Leu	Lys
137					815					820					825
138	Pro	Ser	Lys	Gly	Pro	Gln	Glu	Lys	Val	Asp	Gly	Asp	Arg	Glu	Lys
139					830					835					840
E--> 140	Ser	Pro	Arg	Ser	Glu	Pro	Pro	Leu	Lys	Lys	Ala	Lys	Glu	Glu	Ala
141					845					850					855
142	Thr	Lys	Ile	Asp	Ser	Val	Lys	Pro	Ser	Ser	Ser	Ser	Gln	Lys	Asp
143					860					865					870
144	Glu	Lys	Val	Thr	Gly	Thr	Pro	Arg	Lys	Ala	His	Ser	Lys	Ser	Ala
145					875					880					885
E--> 146	Lys	Asp	Thr	Arg	Arg	Gln	Ser	Gln	Pro	Arg	Thr	Arg	Arg	Ser	Lys
147					890					895					900
148	Arg	Thr	Val	Pro	Lys	Thr	Ser	Ser	Gln	Lys	Ser	Gln	Pro	Val	Arg
149					905					910					915
150	Thr	Arg	Arg	Pro	Arg	Ser	Leu	Arg	Lys	Ile	Asn	Tyr	Leu	Ile	Ala

RAW SEQUENCE LISTING

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Input Set : A:\PTO.txt

Output Set: N:\CRF3\03302001\I811045.raw

151		920		925		930									
152	Arg	Glu	Lys	Asn	Glu	Arg	Glu	Lys	Arg	Lys	Lys	Ser	Val	Asp	Lys
153				935						940					945
154	Asp	Phe	Glu	Ser	Ser	Ser	Met	Lys	Ile	Ser	Lys	Val	Glu	Gly	Thr
155				950						955					960
E--> 156	Glu	Ile	Val	Lys	Pro	Ser	Pro	Lys	Arg	Lys	Met	Glu	Gly	Asp	Val
157				965						970					975
158	Glu	Lys	Leu	Glu	Arg	Thr	Pro	Glu	Lys	Asp	Lys	Ile	Ala	Ser	Ser
159				980						985					990
160	Thr	Thr	Pro	Ala	Lys	Lys	Ile	Lys	Leu	Asn	Arg	Glu	Thr	Gly	Lys
161				995						1000					1005
162	Lys	Ile	Gly	Asn	Ala	Glu	Asn	Ala	Ser	Thr	Thr	Lys	Glu	Pro	Ser
163				1010						1015					1020
164	Glu	Lys	Leu	Glu	Ser	Thr	Ser	Ser	Lys	Ile	Lys	Gln	Glu	Lys	Val
165				1025						1030					1035
166	Lys	Gly	Lys	Ala	Lys	Arg	Lys	Val	Ala	Gly	Ser	Glu	Gly	Ser	Ser
167				1040						1045					1050
168	Ser	Thr	Leu	Val	Asp	Tyr	Thr	Ser	Thr	Ser	Ser	Thr	Gly	Gly	Ser
169				1055						1060					1065
170	Pro	Val	Arg	Lys	Ser	Glu	Glu	Lys	Thr	Asp	Thr	Lys	Arg	Thr	Val
171				1070						1075					1080
172	Ile	Lys	Thr	Met	Glu	Glu	Tyr	Asn	Asn	Asp	Asn	Thr	Ala	Pro	Ala
173				1085						1090					1095
174	Glu	Asp	Val	Ile	Ile	Met	Ile	Gln	Val	Pro	Gln	Ser	Lys	Trp	Asp
175				1100						1105					1110
176	Lys	Asp	Asp	Phe	Glu	Ser	Glu	Glu	Glu	Asp	Val	Lys	Thr	Thr	Gln
177				1115						1120					1125
178	Pro	Ile	Gln	Ser	Val	Gly	Lys	Pro	Ser	Ser	Ile	Ile	Lys	Asn	Val
179				1130						1135					1140
180	Thr	Thr	Lys	Pro	Ser	Ala	Thr	Ala	Lys	Tyr	Thr	Glu	Lys	Glu	Ser
181				1145						1150					1155
182	Glu	Gln	Pro	Glu	Lys	Leu	Gln	Lys	Leu	Pro	Lys	Glu	Ala	Ser	His
183				1160						1165					1170
184	Glu	Leu	Met	Gln	His	Glu	Leu	Arg	Ser	Ser	Lys	Gly	Ser	Ala	Ser
185				1175						1180					1185
186	Ser	Glu	Lys	Gly	Arg	Ala	Lys	Asp	Arg	Glu	His	Ser	Gly	Ser	Glu
187				1190						1195					1200
188	Lys	Asp	Asn	Pro	Asp	Lys	Arg	Lys	Ser	Gly	Ala	Gln	Pro	Asp	Lys
189				1205						1210					1215
190	Glu	Ser	Thr	Val	Asp	Arg	Leu	Ser	Glu	Gln	Gly	His	Phe	Lys	Thr
191				1220						1225					1230
192	Leu	Ser	Gln	Ser	Ser	Lys	Glu	Thr	Arg	Thr	Ser	Glu	Lys	His	Glu
193				1235						1240					1245
194	Ser	Val	Arg	Gly	Ser	Ser	Asn	Lys	Asp	Phe	Thr	Pro	Gly	Arg	Asp
195				1250						1255					1260
196	Lys	Lys	Val	Asp	Tyr	Asp	Ser	Arg	Asp	Tyr	Ser	Ser	Ser	Lys	Arg
197				1265						1270					1275
198	Arg	Asp	Glu	Arg	Gly	Glu	Leu	Ala	Arg	Arg	Lys	Asp	Ser	Pro	Pro
199				1280						1285					1290

RAW SEQUENCE LISTING

DATE: 03/30/2001

PATENT APPLICATION: US/09/811,045

TIME: 15:13:53

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03302001\I811045.raw

200 Arg Gly Lys Glu Ser Leu Ser Gly Gln Lys Ser Lys Leu Arg Glu
 201 1295 1300 1305
 202 Glu Arg Asp Leu Pro Lys Lys Gly Ala Glu Ser Lys Lys Ser Asn
 203 1310 1315 1320
 204 Ser Ser Pro Pro Arg Asp Lys Lys Pro His Asp His Lys Ala Pro
 205 1325 1330 1335
 206 Tyr Glu Thr Lys Arg Pro Cys Glu Glu Thr Lys Pro Val Asp Lys
 207 1340 1345 1350
 208 Asn Ser Gly Lys Glu Arg Glu Lys His Ala Ala Glu Ala Arg Asn
 209 1355 1360 1365
 210 Gly Lys Glu Ser Ser Gly Ala Asn Cys His Val Tyr Leu Thr Arg
 211 1370 1375 1380
 212 Gln Thr Leu Pro Trp Arg Arg Ser Trp Leu Leu Gly Arg Trp Arg
 213 1385 1390 1395
 214 Arg Ala Pro Ser Ser Arg Asn Pro Ser
 215 1400

316 <210> SEQ ID NO: 3

317 <211> LENGTH: 16

318 <212> TYPE: DNA

319 <213> ORGANISM: Unknown

321 <220> FEATURE:

323 <221> NAME/KEY: primer_bind

324 <223> OTHER INFORMATION: P2P antisense oligonucleotide

326 <400> SEQUENCE: 3

E--> 327 cagcaggagc tgtgtt

329 <210> SEQ ID NO: 4

330 <211> LENGTH: 16

331 <212> TYPE: DNA

332 <213> ORGANISM: Unknown

334 <220> FEATURE:

336 <221> NAME/KEY: primer_bind

337 <223> OTHER INFORMATION: P2P sense oligonucleotide

339 <400> SEQUENCE: 4

E--> 340 ctactaagcc atcggc

~~1404~~ delete - number the amino acids under
 every 5 -
 amino acids

16 ← insert cumulative
 base total at right
 margin of each line

16 ← insert

VERIFICATION SUMMARY

DATE: 03/30/2001

PATENT APPLICATION: US/09/811,045

TIME: 15:13:54

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03302001\I811045.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:140 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:146 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:156 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:224 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:327 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:16 SEQ:3
L:340 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:16 SEQ:4